

ABSTRACT

A crystallized bottleneck of a polyester beer bottle, in which the crystallized
5 bottleneck has no machined screw thread and where the bottleneck has a
crystallized length of 0.5–35 mm. To manufacture the crystallized bottleneck, an
uncrystallized blank of the bottle is placed for 24-72 hours in an air-conditioned
environment and a crystallizer is preheated two hours or more before crystallization.
A bunker is loaded with the uncrystallized blank, which is delivered to a blank horse's
10 head via a conveyor belt, then a bottleneck portion of the uncrystallized bottle blank
is sent into a crystallizer to heat it at high temperature and crystallize it via a arbor
transmission chain; at the same time, the uncrystallized portion of the blank body is
controlled, so that it is not affected by the environment at high temperature. The
polyester bottle blank having a crystallized bottleneck portion is discharged through
15 an output blank horse's head and delivered to another conveyor belt to cool and
shape it. The crystallized bottleneck of the polyester beer bottle and the
manufacturing method for the same provided by the invention effectively enhance
the heat-durability of the bottleneck of the polyester beer bottle and stability for
maintaining its dimension, so that the polyester beer bottle exhibits an excellent
20 pressure-tightness effect, and it is reliable for ensuring the quality of the beer
received therein.